

Investigating short-wave ....

S/169/62/000/007/130/149  
D228/D307

This radiation did not change at the time of a flare. In the region  $8 - 21 \text{ \AA}$  (Al-Filter) the flow was constant ( $6.2 \times 10^4$  pulses.  $\text{cm}^{-2}.\text{sec}^{-1}$ ), apart from the interval 15.45 - 15.54 hrs (the period of heightened activity), when it increased by 3.2 times, and also the period 14.24 - 14.28 hrs, when it grew by 63%. Fluctuations in this radiation were noticed, too, in other time periods. In the region shorter than  $8 \text{ \AA}$  (Be-filter) radiation from the quiet sun was very low and was often indistinguishable above the background of radiation with a non-solar origin. At the time of heightened solar activity the flow in the region  $5 - 10 \text{ \AA}$  (Be-filter) increased by 11-fold as compared with that recorded up to this background. In the chromospheric hydrogen line  $\text{Ly-}\alpha$  the radiation flow comprised  $2 - 6 \text{ ergs/cm}^2.\text{sec}$  and did not appear to increase at the time of an active solar phase. These data were interpreted on the assumption that the X-ray emission of the sun and its flare is the radiation of an absolutely black body. The temperature of the sun's corona was found to equal  $9 \times 10^5 \text{ }^\circ\text{K}$ , its emission capacity

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being  $5 \times 10^{-16}$  of that of a black body. A chromospheric flare's temperature amounts to  $6.5 \times 10^6$  °K, its relative area on the sun's disc being  $10^{-4}$ . /-Abstracter's note: Complete translation.\_7

Card 4/4

9.6150 (also 4702)

10703

S/169/62/000/008/072/090  
E032/E114

AUTHORS: Yefremov, A.I., Podmoshenskiy, A.L., Ivanov, M.A.,  
Nikiforov, V.N., Yefimov, O.N.

TITLE: Filtering apparatus for the study of short-wave  
solar radiation

PERIODICAL: Referativnyy zhurnal, Geofizika, no.8, 1962, 17,  
abstract 8 G 128. (In the Symposium: 'Iskusstv.  
sputniki Zemli' ('Artificial Earth Satellites')  
no.10, M., AN SSSR, 1961, 48-54)

TEXT: A brief description is given of the method and apparatus  
used on a satellite to study the intensity of short-wave solar  
radiation by isolating different spectral regions with the aid of  
filters. The spectral sensitivity of the pulse counting radiation  
detectors, the secondary electron multipliers of the open type with  
BeO and SrF<sub>2</sub> photocathodes, and also the spectral sensitivity of  
the apparatus with the various filters [(Cu, Be, Al, (CH)<sub>n</sub>, LiF)]  
are described. The advantages of this method as compared with the  
counter method are emphasised; it is possible to use an extensive  
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Filtering apparatus for the study...

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E032/E114

selection of filters with a single sensitive element capable of covering a wide spectral region (from X-rays to the ultraviolet), the lower sensitivity to the cosmic ray background, and the very wide range of the counting rates which can be recorded. Provision was made for regular zero checks and also checks of the overall sensitivity. A photograph and a block diagram of the apparatus are given, the electronic circuits (partly transistorised) are described, and the operation of a two-lens optical probe of the automatic switch, which operates when solar radiation enters the device, are described. The instrument is capable of recording the short-wave emission of solar flares from a satellite. 8 references.

[Abstractor's note: Complete translation.]

Card 2/2

YEFREMOV, A. I., and TYUTIKOV, A. M.

"Grazing Incidence Vacuum Monochromator Research Between 20A and 300A."

report to be submitted for the 1st. Intl. Conference on Ultraviolet Vacuum  
Radiation Physics.  
University of Southern California  
16-19 April 1962

BATUYEV, G.S., kand. tekhn. nauk; FEDOSOV, A.A., kand. tekhn. nauk; YEFREMOV,  
A.K., inzh.

Collision of solid bodies in case of elastoplastic deformations in  
the contact area. Rasch.na prooh. no.10:363-390 '64.

(MIRA 18:1)

YEFREMOV, Aleksandr Nikolayevich, (1932-); FEDOROVSKIY, Yevgeniy Petrovich  
(1933-)

[Book about a meridian called "the restless straight line"]  
Kniga ob odnom meridiane pod nazvaniem "Bespokoinaia pri-  
maia." Moskva, Molodaia gvardiia, 1962. 295 p.

• (MIRA 16:4)

(Russia—Description and travel)

YEFREMOV, Aleksandr Nikolayevich; FEDOROVSKIY, Yevgeniy Petrovich;  
STROYEV, A., red.

[Hundred roads and hundred friends; Moscow, Cape Dezhnev,  
Kuril Islands, Sakhalin, the Maritime Territory, Moscow]  
Sto doro, sto druzei; Moskva, Mys Dezhneva, Kuril'skie  
ostrova, Sakhalin, Primor'e, Moskva. Moskva, Molodaia  
gvardiia, 1964. 191 p. (MIRA 17:8)



YEFREMOV, A. H.

USSR/Electronics - Dielectrics

Jul 51

"Influence of Reactance in Quarter-Wave Lecher System on Measurement of Dielectric Constant," I. V. Zhilenkov, A. N. Yefremov, Voronezh Agr Inst

"Zhur Eksper i Teoret Fiz" Vol XXI, No 7, pp 839-844

Studied quarter-wave Lecher system for effects of inductance of condenser leads, bending of leads etc., on measurement of capacitance and dielectric constant. Authors consider most suitable a 3-plate

LC

USSR/Electronics - Dielectrics (Contd)

Jul 51

condenser whose inlets are directly connected into leads of Lecher system. Authors were assisted in laboratory work by N. G. Vorotnikova, student at Voronezh U. Submitted 26 Jun 50.

189740

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189740

YEFREMOV, A.N. (g. Kirov)

Shortcomings of a book for home reading ("Oxygen." V. Medvedovskii.  
Reviewed by A.N. Efremov.) Khim.v shkole 9 no.5:71-73 S-O '54.  
(Oxygen--Juvenile literature) (Medvedovskii, V.) (MLRA 7:9)

YEFREMOV, A. N.

YEFREMOV, A. N. (g.Kirov)

Deficiencies of illustrations in the methodological literature  
of chemistry. Khim.v shkole 12 no.6:69-72 N-D '57. (MIRA 10:12)  
(Chemistry) (Illustration of books)

YEFREMOV, A.N.

Scientific foresight and the atheistic education of students.  
Khim.v shkole 14 no.3:21-31 My-Je '59. (MIRA 12:9)

1. Pedagogicheskiy institut, g.Kirov.  
(Chemistry--Study and teaching) (Communism and religion)

YEFREMOV, A. N.

PHASE 2: WORK REPLENISHING

507/1575

Trudy zhurnalov i referenty po fiziko-khimiicheskoy. 2d, 1953

Filets distributed; truly worthy vacuum-type lensless film (Physics of Diagnostics Transactions of the All-Union Conference on the Physics of Diagnostics) Moscow, Izdat. AN SSSR, 1960. 32 p. First copy inserted. 5,000 copies printed.

Sponsoring Agency: Academy of Sciences, Fishbiology Institute and P. I. Lebedevskii Institute of Publishing House, T. L. Skvortsova, Tech. M. I. M. Drobyshevskii; Editorial Board: (Serp. L. G. Shcheglov, Doctor of Physics and Mathematics; Gerasimov, and T. I. Filipenko, Candidates of Physics and Mathematics).

PARADOX: The collection of reports is intended for scientists investigating the physics of dielectrics.

The Second All-Union Conference on the Physics of Dielectrics held in Leningrad, the USSR Academy of Sciences Building, took place from April 10 to May 6, 1978, and was attended by representatives of the Presidential Scientific Center of the USSR and of several other countries. The conference consisted of 10 sessions and 10 plenary sessions. The main topics discussed at the conference and summarized in the proceedings were:

- the dielectric properties of polymers and composites; the dielectric properties of various crystals, chemical compounds, and ceramics; photoelectricity, ferroelectricity, etc.; and various radiation and ionization effects on dielectrics are investigated.

The volume contains a list of about 100 papers presented at the conference dealing with polarization, breakdown phenomena of dielectrics, which were published in the Proceedings of the USSR Academy of Sciences, No. 44, 1978, so personalities are mentioned. References accompany each paper.

Alfred W. Filds, E. O. Lister, and J. D. Trickett. Temperature Deposition  
The of Certain Ion Discharges

**Pilcher, J. S.** Specific Inductive Capacitance and Dielectric Losses of Some Organic Polymers in Strong High-Frequency Electric Fields at High Temperature. *Journal of Chemical Physics*, 1964, 40, 12, 2009-2014. (University of California, San Diego, La Jolla, California 92037.)

**DISCUSSION**

Glenn, J. L. On the Problem of the State-Specific Inductive Capacities of Heterogeneous Dispositives [Vernakhtaniy oboznanayemykh limitov (Vernakht. Agriculatural Institute)]

Arhangelskiy, K.V. Dielectric Parameters of Double Liquid Systems in the Critical Region [Russian Agricultural Institute]

~~Reference to Agricultural Dispersion Observed in Some Diabetics at Anglo  
Farm (Farmers Agricultural Institute)~~

Parsons, T. M., and E. S. Lohndorff. Dielectric Properties of Heterogeneous Dielectrics at Superhigh Frequencies

## Discussion

Wittkover, G.P., and A.M. Lobanov. Study of  $\epsilon$  and  $\gamma$  in Polymers as a Function of Temperature at Specific High Frequencies. Institute of Chemical Physics, Academy of Sciences, Leningrad (Institute of High Molecular Compounds, USSR, Leningrad) . . . 9

Bergin, S. P. Disinfectants: Characteristics (and tests) of Impregnated Cable Paper in Relation to the Properties of the Compounds (Paper and Oil) [Moscow: Energiychnostekhninstut (Moscow Power Engineering Institute)]

## Discussion

Enolovsky V.Kh. Problems of the Dynamic Theory of Thermal Phenomena in Solids.

L'Équipe, i.e., V.A. Krashinsky, Ye.F. Ouzar, and V.V. Pashkov, on the  
 movement of electrons in an electric field (fundamentally electrochemical  
 Institute im. V.I. Il'yeva (Leningrad) (Leningrad Electrotechnical Institute  
 (Leningrad V.I. Il'yev (Leningrad))

**Dainton, D.A., and V.A. Soreley.** Use of Coaxial Resonators for Measuring Polymer Dielectric Losses and Specific Inductive Capacitance in Relation to Temperature Instabilities of High Molecular Compounds. *Academy of Sciences USSR, (English)*

Beluker I.S., and V.M. Frid<sup>2</sup>. Photoelectrets and the Electrophotography Process [with the Kristallofizika USSR Moscow (Institute of Crystallography, Academy of Sciences USSR, Moscow)]

Gubina, A. S., and V. F. Selezneva. On Charge Stability of Inorganic Electrodeposits. Institute Issue P. M. Lebedev, 45 USSR, Moscow]

88061

S/139/60/000/006/030/032  
E032/E414

9.2110 (1001, 1043, 1145)

AUTHOR: Yefremov, A.N.

TITLE: Determination of the Static Values of Dielectric Parameters for Dielectrics With Considerable Conductivity

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, No.6, pp.172-173

TEXT: Steinemann and Granicher (Ref.1) have pointed out that neither the Cole diagram nor the linear Cole function can be used to obtain the static values of dielectric parameters (by extrapolation) for dielectrics with considerable conductivity; they quote the following formula

Eq.  
(1)

$$\epsilon'_s = \epsilon'_s(\sigma) - 2 \frac{\sigma_0 \tau}{\epsilon_0} \quad (1)$$

which they used to correct the static dielectric constant obtained by extrapolation over the Cole semicircle. This Card 1/4

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# Determination of the Static Values of Dielectric Parameters for Dielectrics With Considerable Conductivity

formula is based on purely geometrical considerations and gives satisfactory results only for dielectrics with very low conductivity. When the conductivity is relatively high, this formula cannot be used. The present author considers that it is more useful to carry out the extrapolation in conductivity-independent coordinates using the function

Eq.  
(2)

$$\frac{1}{\epsilon' - \epsilon_{\infty}} = \frac{1}{\epsilon' - \epsilon_{\infty}} + \frac{\omega^2}{\epsilon' - \epsilon_{\infty}} \quad (2)$$

obtained from the Debye equation for  $\epsilon'$ . When this expression is plotted as a straight line

$$\frac{1}{\epsilon' - \epsilon_{\infty}} \quad \text{vs} \quad \omega^2$$

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Determination of the Static Values of Dielectric Parameters  
for Dielectrics With Considerable Conductivity

the intercept on the ordinate axis gives the value of

$$\sigma = \frac{1}{\epsilon_s - \epsilon_\infty} \quad \text{and hence} \quad \epsilon_s = \frac{1}{\sigma} - \epsilon_\infty \quad (3)$$

Since a straight line can be defined by two points only, only two values of  $\epsilon'$  are necessary in order to determine  $\epsilon_s$ . The static value of the conductivity  $\sigma$  can be obtained in a similar manner. This method of extrapolation can be used to determine the capacitance of the layer in the immediate neighbourhood of electrodes ( $c_1$ ) which is due to the dispersion in the dielectric properties of water and is given by

$$c_1 = \frac{\epsilon_s r_s^2 - \epsilon r^2}{(r_s - r)^2} \quad (6)$$

and 3/4



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Determination of the Static Values of Dielectric Parameters  
for Dielectrics With Considerable Conductivity

where  $C$  and  $R$  are the capacitance and the resistance of the capacitor in the absence of the near-electrode layer. In the present experiments, the capacitance of the near-electrode layer was found to be  $13.5 \text{ nF/cm}^2$ , which is in good agreement with Frankin's results (Ref 3). There are 3 references: 2 Soviet and 1 English.

ASSOCIATION Voronezhskiy sel'skokhozyaystvennyy institut  
(Voronezh Agricultural Institute)

SUBMITTED March 1, 1960

Card 4/4

YEFREMOV, A.N. (Voronezh)

Distorting effect of the electrode layer on the measurements of dielectric constants. Zhur. fiz. khim. 34 no.3:565-571 no.3:565-571 Mr '60. (MIRA 13:11)

1. Selskokhozyaystvennyy institut, Voronezh.  
(Dielectric constants)

YEFREMOV, A.N.; KOMRAOV, A.A.

Reproducing the Henri Becquerel experiment under school conditions.  
Khim. v shkole 16 no.2:60-62 Mr-Apr '61. (MIRA 14:6)

1. Pedagogicheskiy institut, Kirov.  
(Radioactivity)

YEFREMOV, A. N.

Determination of low speeds of air flow by means of a Pitot tube with the aid of a differential manometer. Izv. vys. uch. zav.; fiz. 3:33-34 '62. (MIRA 15:10)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

(Aerodynamics) (Manometer)

YEFREMOV, A.P.; OVOSHCHNIKOV, M.S.

Diagnostic significance of roentgenologic examination of transverse pulmonary layers. Klin. med., Moskva 30 no. 12:62-66 Dec 1952.

(CJML 24:1)

1. Docent for Yefremov; Stalin Prize Winner for Ovoshchnikov. 2. Of Kiev Scientific-Research Roentgen-Radiological and Oncological Institute (Director -- Prof. I. T. Shevchenko).

BUSHIN, V.V.; YEFREMOV, A.P.; STOUMOV, V.K.; YERMOLAYEV, G.I., red.

[Large-panel housing construction; practices of the "Cherepovetsmetallurgstroi" Trust] Krupnopanel'noe domostroenie; iz opyta raboty tresta "Cherepovetsmetallurgstroi." Vologda, Vologodskoe knizhnoe izd-vo, 1959. 39 p. (MIRA 13:12)  
(Apartment houses) (Precast concrete construction)

YEFREMOV, A.S.

KRIVKOV, G.A., polkovnik meditsinskoy sluzhby; VEKSLER, Ya.I., mayor meditsinskoy sluzhby, kandidat meditsinskikh nauk; YEFREMOV, A.S., mayor meditsinskoy sluzhby; SHWINGERTS, A.R., podpolkovnik meditsinskoy sluzhby, kandidat meditsinskikh nauk; RUMOVSKIY, D.N., polkovnik meditsinskoy sluzhby.

Course of experimental pneumonia following damage by radiation.

Voen.-med.zhur. no.7:41-45 J1 '56.

(MLRA 9:11)

(RADIATION SICKNESS) (PNEUMONIA)

YEFREMOV, A. T.

6719. Yefremov, A. T. Polnoye ispol'zovaniye lipovoy kory na mochalo.  
Ufa, Bashkir. kn. izd., 1954. 29s. s ill. 20 sm. 1.800 ezk. 40 k. --  
(55-2787)p 634.985.8

SO: Knizhnaya Letopis' No. 6, 1955



YEFREMOV, A. V.

PA 161767

USSR/Engineering - Steam  
Rubber, Synthetic

Jun 50

"Utilization of Physical Heat in Technological  
Gases to Obtain Steam in the Synthetic Rubber  
Industry," A. V. Yefremov, Engr, 1½ pp

"Prom Energet" No 6

Details boiler used, with sketch. Initial gas  
temperature is 290-300°C and steam is generated  
at 5-6 at. Equipment cost 300,000 rubles. An-  
nual saving is 892,834 rubles.

161767

YEFREMOV, A.V., kandidat tekhnicheskikh nauk.

Formulas for calculating the suspension (transporting) capacity  
of a stream. Vop.gidr.no.1:159-165 '55. (MLRA 9:12)  
(Hydraulics)

YEFREMOV, A.V., kand.tekhn.nauk

Results of revising formulas applied for calculating the capacity  
of channels to carry sediments. Trudy SANIIRI no.91:105-116 '58.  
(MIRA 14:1)

(Sedimentation and deposition)  
(Irrigation canals and flumes)

YEFREMOV, A. V.

"Methodology of the Study of Suspended Pumps and Its Significance in the Determination of the Suspension (Transporting) Capabilities of A Stream."  
Cand Tech Sci, Inst of Construction, Acad Sci Uzbek SSR, Tashkent, 1954.  
(RZhMekh, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

YEFREMOV, A.V., inzh.

All enterprises should operate at a profit. Ugol' Ukr. 5  
no.12:41-42 D '61. (MIRA 14:12)

1. Kombinat Donetsugol'.  
(Coal mines and mining--Costs)

YEFREMOV, A.V.; MESHCHERYAKOV, V.A.; SHIRKOV, D.V.

Pion-nucleon scattering at low energies. Part 1. Zhur. eksp. i  
teor. fiz. 39 no.2:438-449 Ag '60. (MIRA 13:9)

1. Ob"yedinennyy institut yadernykh issledovaniy.  
(Nucleons--Scattering)

02219

S/056/60/039/004/037/048  
B006/B056

24.6900

AUTHORS: Yefremov, A. V., Meshcheryakov, V. A., Shirkov, D. V.

TITLE: Pion-Nucleon Scattering at Low Energies. II

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 39, No. 4(10), pp. 1099 - 1105

TEXT: Following part I (Ref. 1) of the paper, an integral equation for the phase shift  $\alpha_{33}$  is here derived, and, besides, expressions for other phase shifts which involve  $\pi\pi$ -scattering phase shifts  $\delta_0$  and  $\delta_1$  are obtained. It is found that the dispersion relations in pion-nucleon backward scattering play an essential part, and that the phase shift  $\delta_0$  influences considerably the  $\pi N$ -scattering. The scattering length and the phase shift  $\delta_0$  are estimated by considering small phase shifts near the  $\pi N$ -scattering threshold. Proceeding from the double spectral representation by Mandelstam, the system of integral equations for the partial waves of pion-nucleon scattering is obtained, in whose derivation the dispersion

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Pion-Nucleon Scattering at Low Energies. II

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B006/B056

relations play an important part. As there are no prospects of being able to give a rigorous proof of Mandelstam's representation, an investigation of the possibility of a rigorous proof of dispersion relations for backward scattering is of interest. It is shown that into the expression for the partial waves of  $\pi N$ -scattering, the s-phase shift  $\delta_0$  of  $\pi\pi$ -scattering enters with a large factor. Therefore, it is possible, in spite of the approximative character of the calculations and the considerable experimental errors, to determine sign and order of magnitude of the scattering length only on the basis of an investigation of the small p-waves of  $\pi N$ -scattering near the threshold. The authors assume that a more exact calculation of the s- and p-waves in the energy range from 100 to 200 Mev might also furnish data on the p-wave of  $\pi\pi$ -scattering. The results obtained agree with those of Ref. 9, but not with those of Ref. 10. These contradictions are finally briefly discussed. The authors thank Professor Chzhu Khun-yuan' for discussions. There are 1 figure and 10 references: 4 Soviet, 4 US, and 1 CERN.

ASSOCIATION: Ob'yedinennyi institut yadernykh issledovaniy (Joint  
Institute of Nuclear Research)

SUBMITTED: May 31, 1960  
Card 2/2



YEFREMOV, A.V.; SHIRKOV, D.V.

Highest partial waves in the low energy approximation.  
Dubna, Ob"edinennyi in-t iadernykh issledovani, 1961. 8 p.  
(No subject heading)

YEFREMOV, A.V.; SHIRKOV, D.V.; TSU, H.Y.

The pion-pion scattering at low energy. Dubna, Ob"edinennyi in-t  
iadernnykh issledovani, 1961. 26 p. (MIRA 14:11)

1. On leave of absence from Institute for Mathematics, Siberian  
Branch, AN USSR, Novosibirsk 72 (for Shirkov).  
(No subject heading)

YEFREMOV, A.V.; SEREBRYAKOV, V.V.; SHIRKOV, D.V.; SARANTSEVA, V.R.,  
~~tekhn. red.~~

Low-energy pion-pion scattering. Dubna, Ob"edinennyi in-t iadernykh issledovani, 1962. 8 p.

1. Institute for Mathematics, Siberian Branch U.S.S.R. Academy of Sciences, Novosibirsk (for Shirkov).  
(No subject heading)

YEFREMOV, A. V. , SEREBRYAKOV, V. V., and SHIRKOV, D. V.

"Pion-Pion Scattering of Low Energies"

report presented at the Intl. Conference on High Energy Physics, Geneva,  
4-11 July 1962

Joint Institute for Nuclear Research  
Lab. of Theoretical Physics

24.6700

37885  
S/056/62/042/005/032/050  
B102/B138

AUTHORS: Yefremov, A. V., Shirkov, D. V.

TITLE: Higher partial waves in low-energy  $\pi\pi$ -scattering

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,  
no. 5, 1962, 1344-1353

TEXT: A. G. Sarker (Nucl. Phys., 29, 318, 1962) and C. Lovelace (Nuovo Cim., 22, 102, 1961) have studied the correspondence between the equations of the  $\pi\pi$ -scattering partial waves for low energies obtained with differential (Nucl. Phys. 22, 202, 1960; Scientia Sinica, 10, 812, 1961) and integral methods (G. Chew, S. Mandelstam, Phys. Rev. 119, 467, 1960). Unclear formulations in these studies have been the cause of a new and detailed investigation into the problem of the influence of higher partial waves in the differential method and a comparison with the Chew-Mandelstam method. Also the problem of taking the highest number (including an infinite one) into account is discussed. For neutral  $\pi\pi$ -scattering the asymptotic behavior of the amplitude is given by  $\text{Re } A_0(\nu) \rightarrow \pi b / \ln \nu$ , where  $b = 1/2$ ; this relation is not changed when higher partial waves in the Card  $1/2$

Higher partial waves in low-energy ...

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real as well as in the imaginary part of the amplitude are taken into account. The fact that, when higher partial waves are taken into account, the approximations in real and imaginary parts of the scattering amplitudes agree, holds only for neutral particles and is due to the absence of a p-wave. It is shown that when charged pions interact the factor in the logarithmic asymptotic behavior is changed, but only to a negligible extent. In all cases the effect of the higher partial waves is small, even if an infinite number of them is taken into account. D. I. Blokhintsev, N. N. Bogolyubov, Yu. Vol'f, V. A. Meshcheryakov, Ya. Fisher and others are thanked for discussions. ✓

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: December 20, 1961

Card 2/2

YEFREMOV, A.V.

Laboratory and full-scale studies of the Kzyl-Orda Hydroelectric  
Power Station. Vop. gidr. no.11:40-57 '63. (MIRA 17:6)

YEFREMOV, A.V., kandidat meditsinskikh nauk (Leningrad)

Clinical and roentgenologic observation of ulcerous diverticulitis of  
the duodenum. Klin.med. 34 no.11:69-70 N '56. (MIRA 10:2)

1. Iz kafedry meditsinskoy rentgenologii i radiologii (nach. - prof.  
Sh.I.Abramov) Voenno-meditsinskoy ordena Lenina akademii imeni  
S.M.Kirova.

(DUODENUM, diverticulitis  
ulcerous, diag.)

(PEPTIC ULCER, compl.  
duodenal diverticulitis, diag.)



YEFREMOV, A.V.

Roentgenodiagnosis of scapular fractures. Vest. rent. i rad.  
32 no.1:17-20 supplement '57 (MLRA 10:5)

1. Iz kafedry meditsinskoy rentgenologii i radiologii Voenno-  
meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(SCAPULA, fract.

x-ray diag.)

YEFREMOV, A.V., kand.med.nauk

X-ray examination methods in injuries of the shoulder girdle and joint. Vest.rent. 1 rad. 33 no.2:77-78 Mr-Ap '58. (MIRA 11:6)

1. Iz kafedry rentgenologii Voenno-meditsinskoy ordean Lenina akademii imeni S.M.Kirova.

(SHOULDER, wds. & inj.  
x-ray diag. (Rus))

YEFREMOV, A.V.; BERUCHASHVILI, L.Z.

Eosinophilic granuloma of the bones of the skull. Vop. neirokhir  
24 no. 2:47-51 Mr-Sp '60. (MIRA 14:1)  
(SKULL---DISEASES) (EOSINOPHILIC GRANULOMA)

YEFREMOV, A.V., kand.med.nauk; ABULADZE, Ye.K. (Tbilisi)

Diagnosis of "postbulbar" ulcers of the duodenum. Khirurgia  
no.3:58-64 '62. (MIRA 15:3)  
(DUODENUM--ULCERS)

YEFREMOV, A.V.

Ulcerative lesions of the duodenum in periarteritis nodosa. Soob. AN  
Gruz. SSR 35 no.2:475-482 Ag '64. (MIRA 17:12)

1. Institut eksperimental'noy i klinicheskoy khirurgii i gematologii  
AN Gruzinskoy SSR, Tbilisi.

BINKEVICH, A.V., gornyy inzh.; YEFREMOV, A.V., gornyy inzh.

Mining an incline with a PK-3m cutter-loader with transloading  
of the rock and coal by gantry crane. Ugol' Ukr. 9 no.12:33-35  
D '65. (MIRA 19:1)

1. Trest Krasnogvardeyskugol'.

TSVETIKOVA, N.F.; YEFREMOV, A.V., kand. tekhn. nauk, stv. red.; ABALYANTS,  
S.Kh., doktor tekhn. nauk, prof., red.; GOROSHEV, I.I., kand. tekhn.  
nauk, red.; PROZOROV, G.I., red.

[Technological conditions and norms in the designing of irrigation  
settling basins] Tekhnicheskie uslovia i normy po proektirovaniu  
irrigatsionnykh otstoinikov. Tashkent, Izv-vo "Nauka" UzSSR, 1964.  
66p. (Voprosy gidrotekhniki, no.19) (MIRA 18:5)

*YEFREMOV, A. YA.*

SOV/86-59-1-33/39

AUTHOR: Yefremov, A. Ya., Col, Hero of the Soviet Union, and  
Sadovskiy, S.M., Engr Lt Col

TITLE: How to Determine More Precisely the Cloud Base? (Kak  
tochnye opredelit' nizhnuyu granitsu oblachnosti?)

PERIODICAL: Vestnik vozdushnogo flota, 1959, Nr 1, pp 84-85 (USSR)

ABSTRACT: The authors discuss the article Vysota nizhney granitsy  
oblakov i dal'nost' vidimosti (Cloud Base Altitude and the  
Visibility Range) by Engr Col V.A. Nikiforov, and Engr Lt Col  
V.A. Netesov, published in issue Nr 4 of this periodical in 1958.  
The authors suggest that in addition to pilot balloons, ceiling  
projectors, and weather reconnaissance airplanes, which are used  
at present for the measurement of cloud base, a ceilometer should  
be used.

Card 1/1

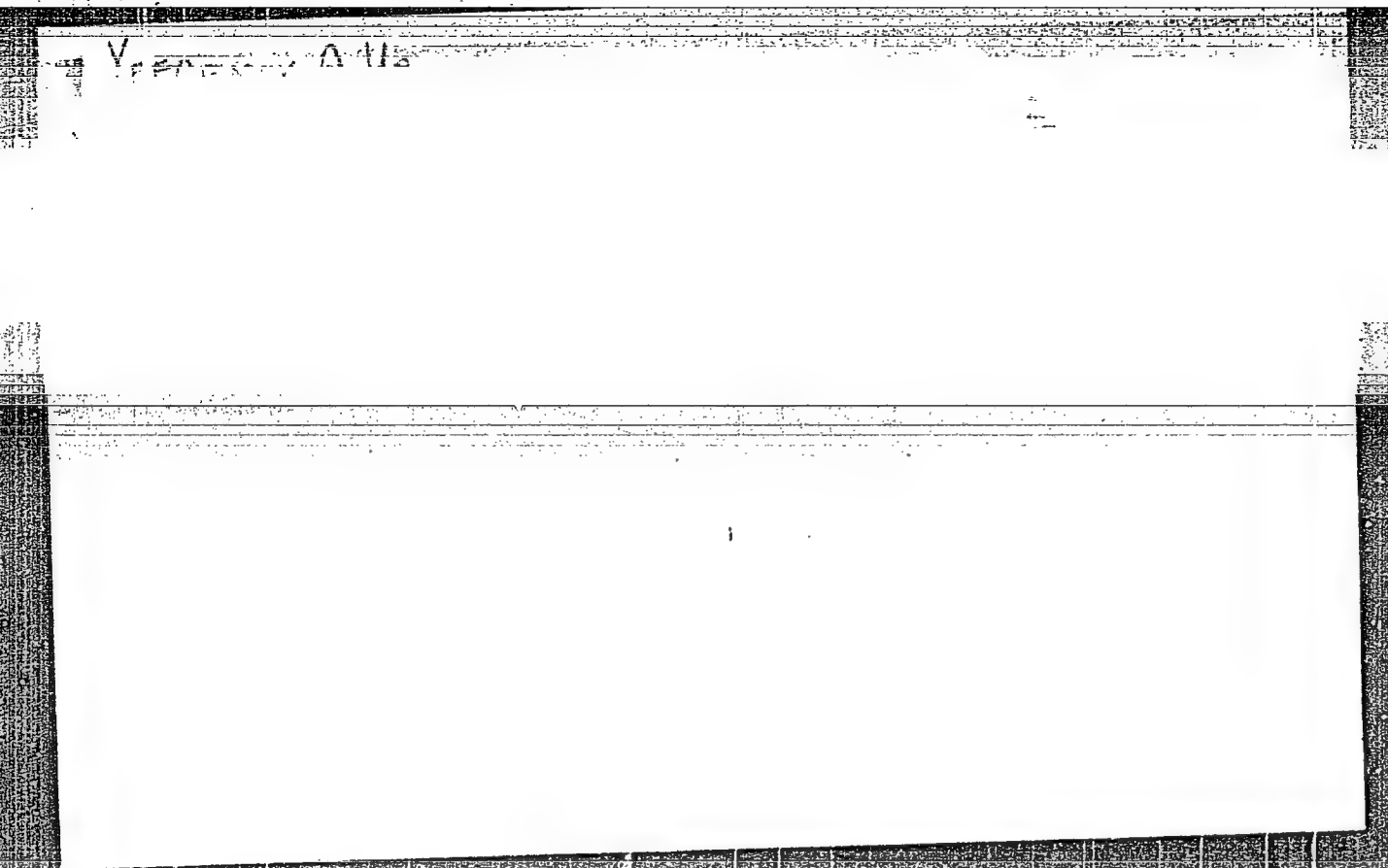


YEFREMOV, Aleksandr Yefremovich; KULAKOV, M.I., redaktor

[Machine-tractor station machinery operators in the struggle for  
bigger crops] Mekhanizatory MTS v bor'be za vysokii urozhai. Kazan',  
Tatknigoizdat, 1953. 78 p. (MLRA 9:9)  
(Machine-tractor stations)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962410016-1



APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962410016-1"

Yefremov, Aleksandr Yefremovich

Za shirmoy "organichennykh" voyn. Moskva, Voenizdat, 1960.

82 p.

Bibliographical footnotes.

YEFREMOV, D.F.

Root systems of the Kurile larch in Kamchatka. Izv. SO AN SSSR  
no.8 Ser. biol-med. nauk no.2:48-56 '64 (MIRA 18:1)

1. Lesnaya opytnaya stantsiya, poselok, Kozurevsk, Kamchatskaya  
oblast'.

ACC NR: AP7002646 (A,N) SOURCE CODE: UR/0413/66/000/023/0193/0193

INVENTOR: Kamov, N. I.; Vlasenko, A. I.; Yefremov, D. K.

ORG: None

TITLE: Suspension device for the automatic pitch control mechanisms on coaxial lift rotors in helicopters. Class 62, No. 128302

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 193

TOPIC TAGS: helicopter rotor, aerodynamic pitch, aircraft control equipment

ABSTRACT: This Author's Certificate introduces a suspension device for the automatic pitch control mechanisms on coaxial lift rotors in helicopters. The installation contains tie rods as well as upper and lower universal joints. The upper joint is made to move along the axis of the shaft to simplify static and dynamic balancing of the lift system.

SUB CODE: 01 / SUBM DATE: 27Oct59

Card 1/1

YEFREMOV, Dmitriy Vasil'yevich

DECEASED '61

1962  
/ 6

Atomic Energy

*see ILC*

YEFREMOV, D.V.  
CA

Investigation of the gas of blast furnace no. 3 of the Magnitogorsk smelting works.—D. V. Efremov, *Soviet. Met.* 9, No. 7, 27-35 (1937); *Chem. Zvesti.* 1936, 11, 1290.—  
By sampling the gas at various points in the blast furnace above the charge it was shown that the flow of gas in the furnace is very irregular and that the reducing capacity of the gas is only very poorly utilized. This irregularity of the gas flow is due to the formation and growth of deposits on the interior of the furnace, which in their turn are due to the type and arrangement of the blast tuyères. The simultaneous sampling of the gas at various points in the furnace above the charge appears to be a very satisfactory and easily carried out method for detg. the condition of the furnace at any particular instant. M. G. Moore

ASH-SLA  
DETAILED LITERATURE CLASSIFICATION

1930-31 1932-33 1934-35 1936-37 1938-39 1940-41 1942-43 1944-45 1946-47 1948-49 1950-51 1952-53 1954-55 1956-57 1958-59 1960-61 1962-63 1964-65 1966-67 1968-69 1970-71 1972-73 1974-75 1976-77 1978-79 1980-81 1982-83 1984-85 1986-87 1988-89 1990-91 1992-93 1994-95 1996-97 1998-99 2000-01 2002-03 2004-05 2006-07 2008-09 2010-11 2012-13 2014-15 2016-17 2018-19 2020-21 2022-23 2024-25 2026-27 2028-29 2030-31 2032-33 2034-35 2036-37 2038-39 2040-41 2042-43 2044-45 2046-47 2048-49 2050-51 2052-53 2054-55 2056-57 2058-59 2060-61 2062-63 2064-65 2066-67 2068-69 2070-71 2072-73 2074-75 2076-77 2078-79 2080-81 2082-83 2084-85 2086-87 2088-89 2090-91 2092-93 2094-95 2096-97 2098-99 2100-01 2102-03 2104-05 2106-07 2108-09 2110-11 2112-13 2114-15 2116-17 2118-19 2120-21 2122-23 2124-25 2126-27 2128-29 2130-31 2132-33 2134-35 2136-37 2138-39 2140-41 2142-43 2144-45 2146-47 2148-49 2150-51 2152-53 2154-55 2156-57 2158-59 2160-61 2162-63 2164-65 2166-67 2168-69 2170-71 2172-73 2174-75 2176-77 2178-79 2180-81 2182-83 2184-85 2186-87 2188-89 2190-91 2192-93 2194-95 2196-97 2198-99 2200-01 2202-03 2204-05 2206-07 2208-09 2210-11 2212-13 2214-15 2216-17 2218-19 2220-21 2222-23 2224-25 2226-27 2228-29 2230-31 2232-33 2234-35 2236-37 2238-39 2240-41 2242-43 2244-45 2246-47 2248-49 2250-51 2252-53 2254-55 2256-57 2258-59 2260-61 2262-63 2264-65 2266-67 2268-69 2270-71 2272-73 2274-75 2276-77 2278-79 2280-81 2282-83 2284-85 2286-87 2288-89 2290-91 2292-93 2294-95 2296-97 2298-99 2300-01 2302-03 2304-05 2306-07 2308-09 2310-11 2312-13 2314-15 2316-17 2318-19 2320-21 2322-23 2324-25 2326-27 2328-29 2330-31 2332-33 2334-35 2336-37 2338-39 2340-41 2342-43 2344-45 2346-47 2348-49 2350-51 2352-53 2354-55 2356-57 2358-59 2360-61 2362-63 2364-65 2366-67 2368-69 2370-71 2372-73 2374-75 2376-77 2378-79 2380-81 2382-83 2384-85 2386-87 2388-89 2390-91 2392-93 2394-95 2396-97 2398-99 2400-01 2402-03 2404-05 2406-07 2408-09 2410-11 2412-13 2414-15 2416-17 2418-19 2420-21 2422-23 2424-25 2426-27 2428-29 2430-31 2432-33 2434-35 2436-37 2438-39 2440-41 2442-43 2444-45 2446-47 2448-49 2450-51 2452-53 2454-55 2456-57 2458-59 2460-61 2462-63 2464-65 2466-67 2468-69 2470-71 2472-73 2474-75 2476-77 2478-79 2480-81 2482-83 2484-85 2486-87 2488-89 2490-91 2492-93 2494-95 2496-97 2498-99 2500-01 2502-03 2504-05 2506-07 2508-09 2510-11 2512-13 2514-15 2516-17 2518-19 2520-21 2522-23 2524-25 2526-27 2528-29 2530-31 2532-33 2534-35 2536-37 2538-39 2540-41 2542-43 2544-45 2546-47 2548-49 2550-51 2552-53 2554-55 2556-57 2558-59 2560-61 2562-63 2564-65 2566-67 2568-69 2570-71 2572-73 2574-75 2576-77 2578-79 2580-81 2582-83 2584-85 2586-87 2588-89 2590-91 2592-93 2594-95 2596-97 2598-99 2600-01 2602-03 2604-05 2606-07 2608-09 2610-11 2612-13 2614-15 2616-17 2618-19 2620-21 2622-23 2624-25 2626-27 2628-29 2630-31 2632-33 2634-35 2636-37 2638-39 2640-41 2642-43 2644-45 2646-47 2648-49 2650-51 2652-53 2654-55 2656-57 2658-59 2660-61 2662-63 2664-65 2666-67 2668-69 2670-71 2672-73 2674-75 2676-77 2678-79 2680-81 2682-83 2684-85 2686-87 2688-89 2690-91 2692-93 2694-95 2696-97 2698-99 2700-01 2702-03 2704-05 2706-07 2708-09 2710-11 2712-13 2714-15 2716-17 2718-19 2720-21 2722-23 2724-25 2726-27 2728-29 2730-31 2732-33 2734-35 2736-37 2738-39 2740-41 2742-43 2744-45 2746-47 2748-49 2750-51 2752-53 2754-55 2756-57 2758-59 2760-61 2762-63 2764-65 2766-67 2768-69 2770-71 2772-73 2774-75 2776-77 2778-79 2780-81 2782-83 2784-85 2786-87 2788-89 2790-91 2792-93 2794-95 2796-97 2798-99 2800-01 2802-03 2804-05 2806-07 2808-09 2810-11 2812-13 2814-15 2816-17 2818-19 2820-21 2822-23 2824-25 2826-27 2828-29 2830-31 2832-33 2834-35 2836-37 2838-39 2840-41 2842-43 2844-45 2846-47 2848-49 2850-51 2852-53 2854-55 2856-57 2858-59 2860-61 2862-63 2864-65 2866-67 2868-69 2870-71 2872-73 2874-75 2876-77 2878-79 2880-81 2882-83 2884-85 2886-87 2888-

YEFERMOV, D.V.

ca

Movement of the charge in a large blast furnace. Is  
V. Efremov. *Trans. Leningrad Ind. Inst.* 1938, No. 1.  
Secy: Met. 40-87 (in English, 87 8). Exptl. data are  
given on the factors influencing the speed of the downward  
movement of the charge material in various points of No  
3 blast furnace at Magnitogorsk. B. Z. Kamich

ASH 51.4 METALLURGICAL LITERATURE CLASSIFICATION



YEFREMOV, D.V.  
CA

Use of steam in blast-furnace operation. D. V. Efremov. *Bull. acad. sci. U. R. S. S., Classe sci. tech.* 1942, No. 1-2, 65-80. --Operational data are presented on the use of steam in blast-furnace operation. The principal features are: reduction of coke-utilization requirements, increased productivity and decreased over-all costs of cast iron. Generally, economic considerations prevent the use of over 11% steam. C. M. Kosolapoff.

AS 5-51.4 METALLURGICAL LITERATURE CLASSIFICATION

YEFREMOV, D.V.

Movement of materials in a blast furnace shaft and their distribution at  
the throat. Trudy Leningrad. Politekh. Inst. im. M.I. Kalinina '49, No.2,  
9-60. (MLRA 6:3)  
(CA 47 no.21:11098 '53)

KUCHERYAVIY, F.I., kand.tekhn.nauk; KHODAKOVSKIY, YU.F., gornyy inzh.; YEFREMOV,  
E.I., gornyy inzh.; KOSTRIKOV, V.P., gornyy inzh.

Improving boring and blasting work in trench digging in limestone  
quarries. Gor. zhur. no.7:40-42 JI '62. (MIRA 15:7)

1. Dnepropetrovskiy gornyy institut.  
(Komsomol'skoye region (Donetsk Province)—Limestone)  
(Blasting)

NOVOZHILOV, M.G., doktor tekhn. nauk, prof.; DRUKOVANYI, M.F., kand.  
tekhn. nauk; YEFRIMOV, E.I., inzh.

State of and basic trends in improving boring and blasting  
operations in granite quarries. Vzryv. delo no. 51/8:206-223  
'63. (MIRA 16:6)

1. Otdel gornorudnykh problem AN UkrSSR.  
(Granite industry) (Blasting) (Boring)

NOVOZHILOV, M.G., prof., doktor tekhn. nauk; DRUKOVANYI, M.F., kand.  
tekhn. nauk; GEYMAN, L.M., gornyy inzh.; YEFREMOV, E.I., gornyy  
inzh.; KHOTIYENKO, Yu.P., gornyy inzh.

Effect of the diameter of the charge on the extent of the  
crushing of friable bodies by blasting. Vzryv. delo no.53/10:  
59-76 '63. (MIRA 16:8)

1. Otdeleniye gornorudnykh problem AN UkrSSR.  
(Blasting)

DRUKOVANYI, M.F., kand. tekhn. nauk; YEFREMOV, E.I., gornyy inzh.;  
TERESHCHENKO, A.A., gornyy inzh.; SHESTAKOV, F.K., kand. tekhn.  
nauk; MALYY, I.S., gornyy inzh.

Crushing of rocks in blasting paired benches in the Central and  
Ingulets Mining and Ore Dressing Combines in the Krivoy Rog  
Basin. Vznv. delo no.53/10:147-156 '63. (MIRA 16:8)

1. Otdel gornorudnykh problem AN UkrSSR (for Drukovanyy,  
Yefremov). 2. Tsentral'nyy gornoobogatitel'nyy kombinat  
(for Tereshchenko, Shestakov). 3. Inguletskiy gornooboga-  
titel'nyy kombinat (for Alekseyev, Malyi).  
(Krivoy Rog Basin--Blasting)

DRUKOVANYI, Mikhail Fedorovich; YEFREMOV, Ernest Ivanovich;  
NOVOZHILOV, Mikhail Galaktionovich; TERESHCHENKO,  
Aleksandr Alekseyevich; DEMIDYUK, G.P., kand. tekhn.  
nauk, retsenzent

[Blasting high benches] Vzryvanie vysokikh ustupov. Mo-  
skva, Izd-vo "Nedra," 1964. 105 p. (MIRA 17:5)

KUCHERYAVYY, F.I., dotsent; KHODAKOVSKIY, Yu.F., inzh.; KOSTRIKOV, V.F.,  
inzh.; YEFREMOV, E.I., inzh.

Basis for the selection of blast hole drilling equipment in  
limestone quarries. Izv.vys.ucheb.zav.; gor.zhur. 7 no.2:87-  
92 '64. (MIRA 17:3)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy in-  
stitut imeni Artema. Rekomendovana kafedroy otkrytykh rabot.



NOVOZHILOV, M.G., prof., doktor tekhn. nauk; DRUKOVANYI, M.F., kand.  
tekhn. nauk; YEFREMOV, E.I., gornyy inzh.; TERESHCHENKO, A.A.,  
gornyy inzh.; SHESTAKOV, M.M., gornyy inzh.; PIL'NIK, I.L.,  
gornyy inzh.

Experience in blasting of high benches at the Krivoy Rog Basin  
Central Mining and Ore Dressing Combine. Gor. zhur. no.11:  
29-33 N '63. (MIRA 17:6)

1. Otdeleniye gornorudnykh problem AN UkrSSR (for Novozhilov,  
Drukovany, Yefremov). 2. Tsentral'nyy Krivorozhskiy gorno-  
obogatitel'nyy kombinat (for Tereshchenko, Shestakov, Pil'nik).

NOVOZHILOV, M.G., doktor tekhn. nauk; DRUKOVANNY, V.F., kand. tekhn. nauk;  
YEFREMOV, E.I., inzh.; ALEKSEYEV, F.K., kand. tekhn. nauk; KALYOTA,  
D.I., inzh.

Increasing mining rates during the construction of strip mines.  
Shakht. stroi. 8 no. 7:23-24 JI '64. (MIRA 17:10)

1. Inguletskiy gornobogatitel'nyy kombinat (for Alekseyev). 2.  
Novokrivorozhskiy gornobogatitel'nyy kombinat (for Kalyota).

L 55087-65

ACCESSION NR AM1046248

BOOK EXPLOITATION

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Drukovanyy, Mikhail Fedorovich; Yefremov, Ernest Ivanovich; Novozhilov, Mikhail Galaktionovich; Tereshchenko, Aleksandr Alekseyevich

High bench blasting (Vzryvaniye vysokikh ustupov). Moscow, Izd-vo "Nedra", 1964, 105 p. illus., biblio. Errata slip inserted. 1,800 copies printed

TOPIC TAGS: explosive, explosive charge, mining engineering

PURPOSE AND COVERAGE: The book contains general information about high bench blasting experience in mines. Basic technological schemes of open pit working in high bench blasting are recommended. Questions which concern the effectiveness of drilling, methods of charging, schemes of setting and explosion of charges, and the intensity of the rock crushing during high bench blasting are examined. Theoretical premises which serve as a foundation for the use of high benches are brought to light. The book also describes laboratory research which has been carried out on the activity of the blast in its environment. The book is intended for mining engineering and technical personnel.

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Ch. I. Physical factors which determine the effectiveness of rock crushing in  
high bench blasting -- 5

Ch. II. High bench blasting experience in mines -- 71

Conclusions -- 102

SUBMITTED: 06Feb64

SUB CODE: WA, ES

NO REF SOV: 035

OTHER: 015

Card 2/2

DRUKOVANYI, M.F., kand. tekhn. nauk; YEFREMOV, E.I., kand. tekhn. nauk

Blasting slopes in the development of rock products deposits.

Stroil. mat. 11 no.1:39-40 Ja '65.

(MIRA 18:6)

YEFREMOV, E.I., kand. tekhn. nauk

Efficient length of a charge column. Vzyv. delo no.57/14:  
61-66 '65. (MIPA 18:11)

1. Filial Instituta mekhaniki AN UkrSSR.

MALYUTA, D.I., inzh.; VO'YNETS, M.A., inzh.; KIKOVKA, Ye.I., inzh.;  
KNYAZEV, K.I., inzh.; YEFREMOV, E.I., kand. tekhn. nauk; IL'IN,  
V.I., inzh.

Experience in the blasting of hard ores by deep boreholes  
in the open-pit mine of the Krivoy Rog Mining and Ore Dressing  
Combine. Vzyv. delo no.57/14:145-151 '65. (MIRA 18:11)

1. Novo-Krivorozhskiy gornobogatitel'nyy kombinat (for Malyuta,  
Volynets, Kikovka, Knyazev). 2. Filial Instituta mekhaniki  
AN UkrSSR. (for Yefremov, Il'in).

YEFREMOV, E.I., kand. tekhn. nauk; BURLAKA, A.V., inzh.; TERESHCHENKO, A.A., inzh.; SUKHAREVSKIY, B.N., inzh.

Further improvement of boring and blasting operations with high benches in open-cut mines of the Krivoy Rog Central Mining and Ore Dressing Combine. Vzryv. delo no.57/14: 162-167 '65. (MIRA 18:11)

1. Filial Instituta mekhaniki AN UkrSSR (for Yefremov, Burlaka).
2. Krivorozhskiy Tsentral'nyy gornoobogatitel'nyy kombinat (for Tereshchenko, Sukharevskiy).



NOVOZHILOV, M.G., doktor tekhn. nauk; DRUKOVANYI, M.F., kand. tekhn. nauk;  
TARTAKOVSKIY, B.N., kand. tekhn. nauk; YEFREMOV, E.I., kand.  
tekhn. nauk; IL'IN, V.I., inzh.; GAVRILYUK, I.I., inzh.

Use of high benches in flux quarries. Varyv. delo no.57/14;  
167-173 '65. (MIRA 18:11)

Filial Instituta mekhaniki AN UkrSSR.

DRUKOVANYI, M.F., kand. tekhn. nauk; YEFREMOV, E.I., kand. tekhn. nauk;  
KOMIR, V.M., inzh.; MALYUTA, D.I., inzh.; VOLYNETS, M.A., inzh.;  
KIKOVKA, Ye.I., inzh.

Ways of further improvements in the design of charges for blasting  
operations in mines. Vzryv. delo no.57/14:198-209 '65.  
(MIRA 18:11)

1. Filial instituta mekhaniki AN UkrSSR (for Drukovanyy, Yefremov,  
Komir). 2. Novo-Krivorozhskiy gornoobogatitel'nyy kombinat imeni  
Leninskogo komsomola (for Malyuta, Volynets, Kikovka).

YEFREMOV, F.I., inzh.; YURCHENKO, O.P., inzh.

"Ukraina" headlamp. Ugol' Ukr. 2 no.10:42-43 0 '58.  
(MIRA 12:1)

1. Dongiprouglenash.  
(Electric lamps, Portable)

45321  
S/110/63/000/002/002/002  
A055/A126

27 1530  
AUTHORS: Zhulidov, N.A., Yefremov, P.I., - Engineers

TITLE: A new nickel-zinc battery

PERIODICAL: Vestnik elektromyshlennosti, <sup>34</sup>no. 2, 1963, 74 - 75

TEXT: This is a detailed description of the new nickel-zinc battery, whose design is based on the property of zinc to enter into reaction with certain hydroxides with which it forms practically insoluble (trudnorastvorimyye) compounds. The negative electrode is made of a mixture of zinc and hydroxide components. Thanks to a considerable reduction of the solubility of zinc and to a continuous extraction of zinc ions from the electrolyte by the hydroxide contained in the negative electrode, the new battery presents a greater reliability in operation; it resists overcharges and short-circuits. The new battery uses pressed electrodes without lamellas. It operates normally in half-dry condition. The charging can be effected at a current density of from 0.5 to 1.5 a/dm<sup>2</sup> (positive electrode). At the end of the charging, the current drops to 1/20 of its initial value, and the battery can remain in this condition for ten days. The dis-

Card 1/2

A new nickel-zinc battery

S/11Q/63/000/002/002/002  
A055/A126

charging can be effected at a current density of up to  $10 \text{ a/dm}^2$  (positive electrode). The operating voltage is about 40% higher than that of nickel-iron and nickel-cadmium batteries. The new batteries can work at very low temperatures. Their cost (in series production) must be about 2 - 3 times lower than that of nickel-cadmium batteries. Their service life is longer than that of nickel-cadmium batteries of analogous construction. A table shows some comparative characteristics of nickel-zinc, nickel-iron, nickel-cadmium and silver-zinc batteries. The charging and discharging characteristics of the nickel-zinc battery at various current values are also reproduced. Practical experience (in the Donbass coal-pits) proved the expediency of using the new battery for coal-pit lamps. There are 2 figures and 1 table.

Card 2/2

YEFREMOV, F.Ye., inzh.

Decrease in the wear of the components of coal pulverizing  
systems. Energetik 10 no.4:17 Ap '62. (MIRA 15:4)  
(Crushing machinery) (Coal, Pulverized)

YEFREMOV, F.Ye., inzh.; VINITSKIY, A.I., inzh.; IVANOV, G.S., inzh.;  
KHADZHINOV, G.G., inzh.

Use of wet ash traps in a boiler operating on industrial fuel.  
Elek. sta. 33 no.4:24-26 Ap '62. (MIRA 15:7)  
(Boilers) (Fuel)

YEFREMOV, F. Ye., inzh.

Improvement of the thermal network of an electric power plant.  
Energetik 10 no.8:11-12 Ag '62. (MIRA 15:10)

(Electric power plants)



YEFREMOV, F.Ye., inzh.

Pipe material of cooling systems operating on sea water.  
Elek. sta. 33 no.5:82 My '62. (MIRA 15:7)  
(Azov, Sea of--Electric power plants--Cooling)  
(Water pipes--Corrosion)  
(Electric engineering--Materials)

YEFREMOV, F.Ye., inzh.

Method for leading-off and utilizing the gases of steel-smelting  
converters. Prom. energ. 20 no.9:20-21 S '65. (MIRA 18:9)

YEFREMOV, G.

Improve the training of specialists for mass professions. Avt.  
transp. 43 no.10:47-49 O '65. (MIRA 18:10)

1. Nachal'nik upravleniya po podgotovke kadrov Ministerstva  
avtomobil'nogo transporta i shosseynykh dorog RSFSR.

BOGDANOV, A., inzh.; YEFREMOV, G., inzh.

Combination-type river and seagoing craft. Rech. transp. 24  
no.3:33-34 '65. (MIRA 18:5)

YEFREMOV, G., inzh.

Prospects for the use of aluminum alloys in the building of  
river ships. ~~Rech.~~ transp. 20 no.10:26-28 0 '61. (MIRA 14:9)  
(Shipbuilding) (Aluminum alloys)

YEFREMOV, G.

ANGELINA, P., geroy Sotsialisticheskogo Truda, laureat Stalinskoy premii;  
TSIMIDANOV, K.; MEL'NIK, V.; MYASNIKOV, P.; YEFREMOV, G.; BOGACH, N.,  
geroy Sotsialisticheskogo Truda; ABROSIMOV, V., geroy Sotsialisticheskogo Truda; PAVLOV, M.; ARONOV, I.

Radio network for every machine-tractor station. Radio no.4:6-9 Ap '54.  
(MLRA 7:4)

1. Brigadir traktornoy brigady Staro-Beshevskoy MTS, Stalinskoy oblasti, deputat Verkhovnogo Soveta SSSR (for Angelina).
  2. Direktor Staro-Beshevskoy MTS, Stalinskoy oblasti (for Tsimidanov).
  3. Sekretar' rayon-nogo komiteta KPSS po zone Golobskoy MTS, Volynskoy oblasti (for Mel'nik).
  4. Direktor Isetskoy MTS, Tyumenskoy oblasti (for Myasnikov).
  5. Direktor Pon'kinskoy MTS, Shadrinskogo rayona, Kurganskoy oblasti (for Yefremov).
  6. Direktor Kotovskoy MTS, Odesskoy oblasti (for Bogach).
  7. Direktor Shestakovskoy MTS, Kirovogradskoy oblasti (for Abrosimov).
  8. Glavnyy inzhener Upravleniya sel'skogo khozyaystva Stavropol'skogo kraya (for Pavlov).
  9. Direktor Ol'ginskoy MTS, Poltavskogo rayona, Omskoy oblasti (for Aronov).
- (Radio) (Machine-tractor stations)

YEFREMOV, G.

Improvement of work schedules in machine-tractor stations. MTS 14  
no.3:7-8 Mr '54. (MLRA 7:4)

1. Direktor Pon'kinskoy mashine--traktornoy stantsii, Kurganskoy  
oblasti. (Machine-tractor stations)

YEFREMOV, G.

AFANAS'YEV, L., kand.tekhn.nauk: YEFREMOV, G., inzh.

Training specialists for automotive transportation.

Avt.transp. 35 no.10:22-23 0 '57.

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USSR/Engineering - Construction, Equipment Mar 52

"Machines for Mechanizing Labor-Consuming Construction Operations," G. A. Yefremov, Engr, GUKS, Min of Coal Ind

"Byul Stroitel Tekh" No. 3, pp 3-6

Briefly describes several new items of construction equipment, namely: ditcher KMK-2, tower cranes of various types, truck crane with clam-shell and self-propelled self-loading conveyer. Tabulates working characteristics and discusses application.

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YEFREMOV, G. A., Engr

USSR/Mining - Construction, Equipment 15 Mar 52

"Machines Used in Mine Heading," G. A. Yefremov,  
Engr, GUKS, Min of Coal Ind

"Byul Stroitel Tekh" No 5, pp 25,26

Describes 3 types of machines used in coal mine  
practice: portable concrete mixer, concrete pump,  
both used in works for strengthening various parts  
of mine, and machine for whitewashing drifts and  
crosscuts, and for timber-preserving coating.

213T106

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2. USSR (600)
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by either: Mg reduction method in solns. of nonhydrolyzing  
Cl salts, or by Hg sulfide adsorption method in soln. of  
hydrolyzing or nonhydrolyzing Cl salts, for the concn. of the  
Tl component, after which the detn. proper is performed  
on the concentrates. The ppn. of Tl by means of KI  
appears to be very satisfactory, although the chromate  
method can be used.  
G. M. Kosolapoff

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YEREMOV, G.D., Cand Tech Sci--(disc) "The <sup>placement</sup> Quantity and <sup>temperature</sup> distribution of shafts according to the conditions of gas and <sup>the working</sup> regimes in ~~coal~~ of coal <sup>beds</sup> of the Donets Basin at great depths." Kiev, 1957. 12 pp  
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